

67628 - 0
67685 – 28 grams
67686 – 12 grams
67687 – 7.6 grams
67688 – 2.3 grams
 Breccia



Figure 1: Group photo of 67628, Cm cube. S80-28626

Introduction

67628 was renumbered by Ryder and Norman (1980) when they made the catalog. It is a collection of four “glass bombs” that were collected as rake samples from just inside the rim of North Ray Crater – see section on 67601.

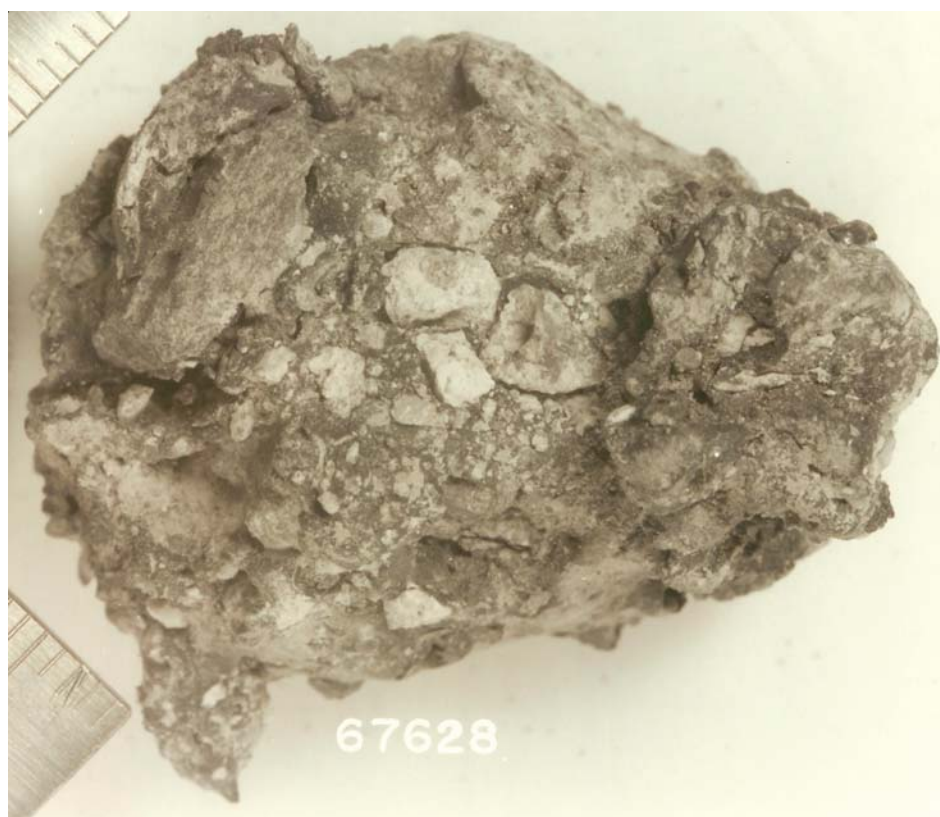


Figure 2: Photo of 67685. S80-35185.

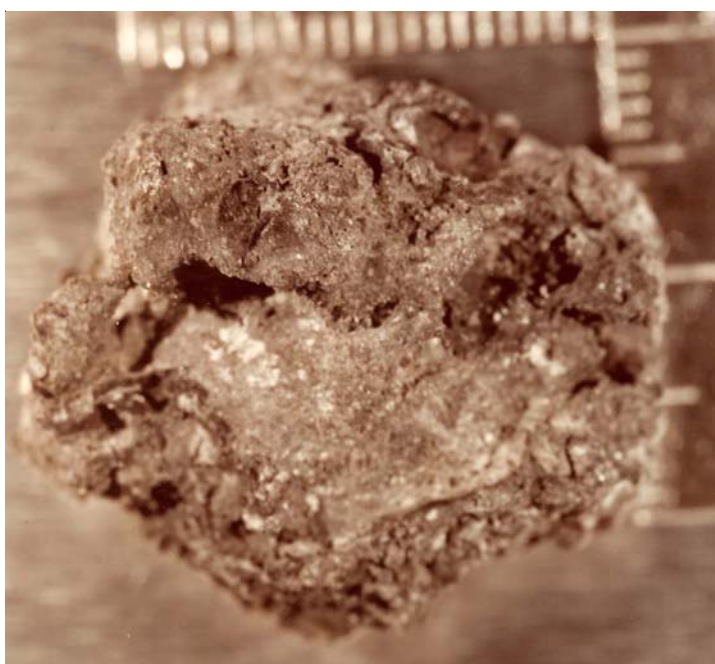


Figure 3: Photo of 67686. S80-35164 Cm and mm scale.



Figure 4: Photo of 67687. Scale in cm/mm. S80-35166.



Figure 5: Photo of 67688. About 1 cm. S80-34084.

Petrography

Borchardt et al. (1985) correctly labeled these particles “glass bombs”. They include a collection of lithic fragments as clasts (figures 1 – 4). They are not unlike the collection that is 67629.

Chemistry

None

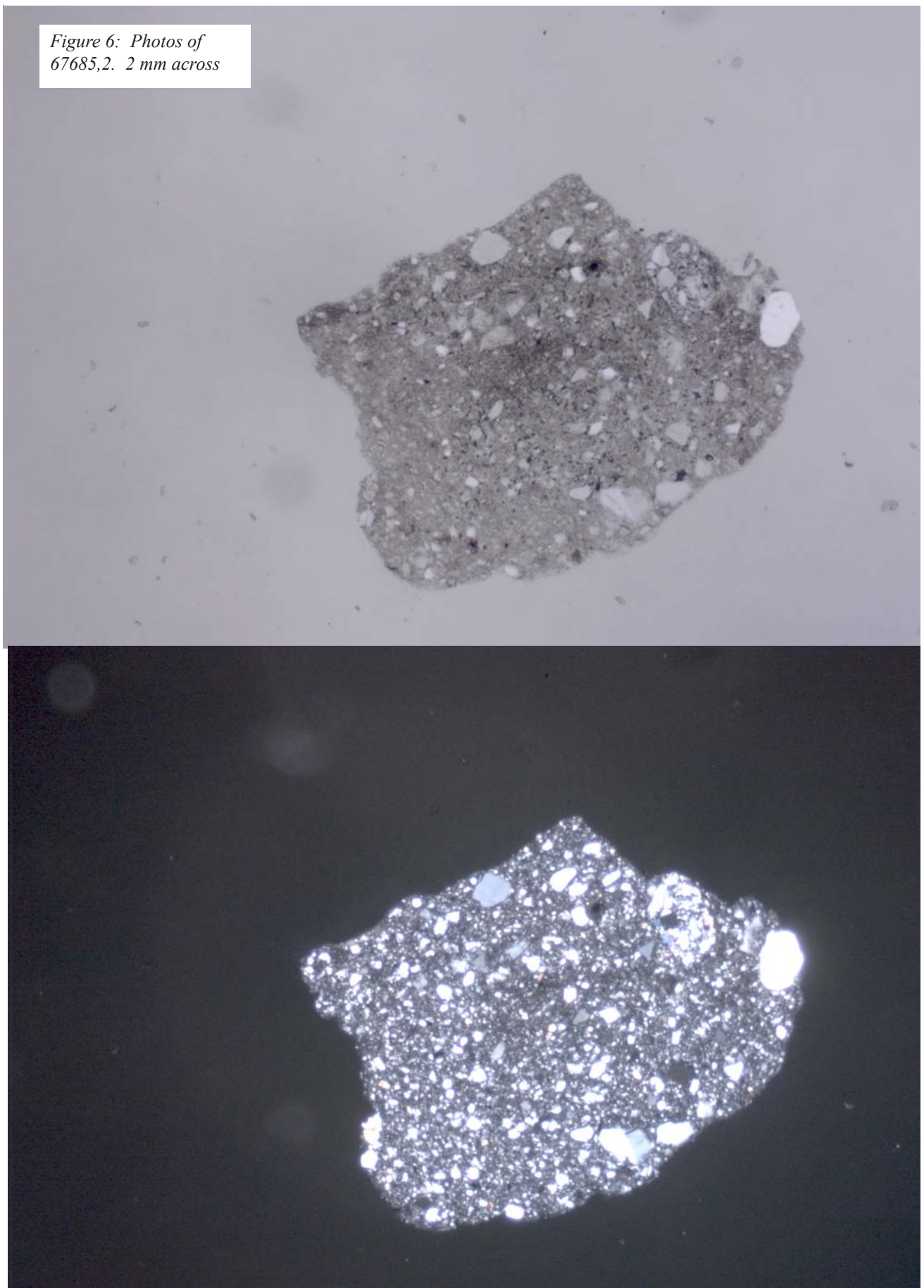
Radiogenic age dating

Not

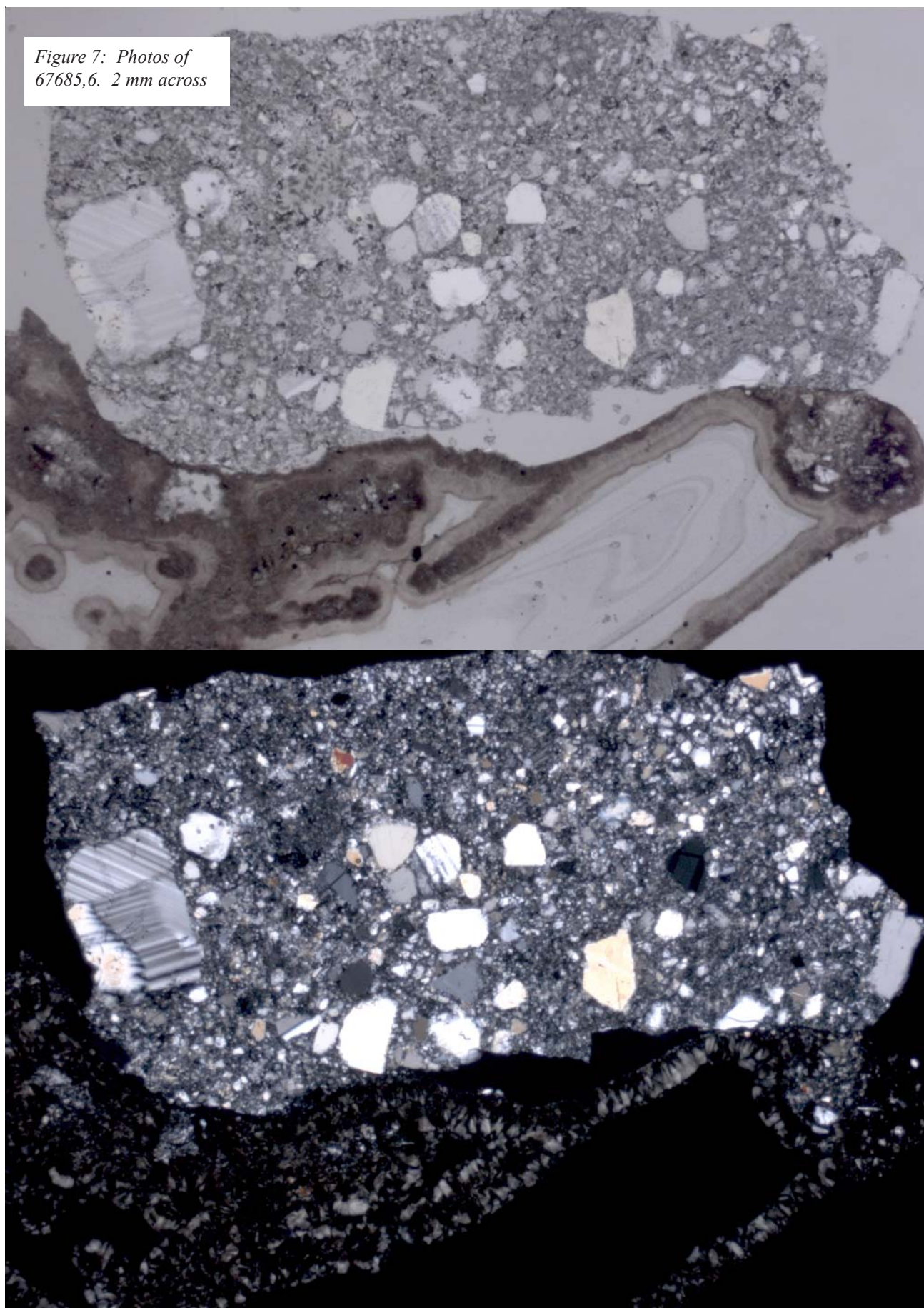
Processing

67628 was originally cataloged as 4 glass particles, but Ryder and Norman (1980) treated them as separate particles – so they were renumbered. They each have a thin section.

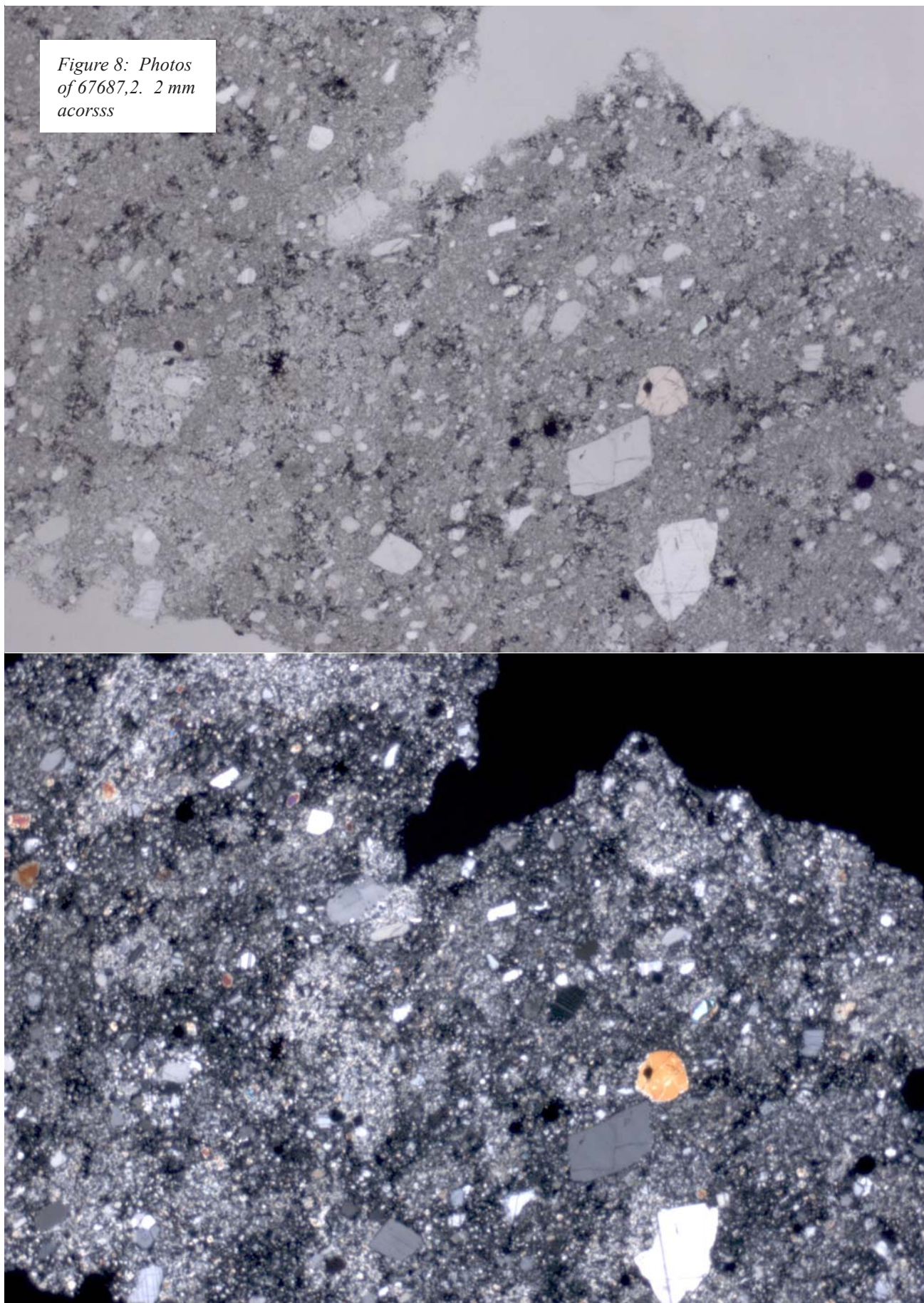
*Figure 6: Photos of
67685,2. 2 mm across*

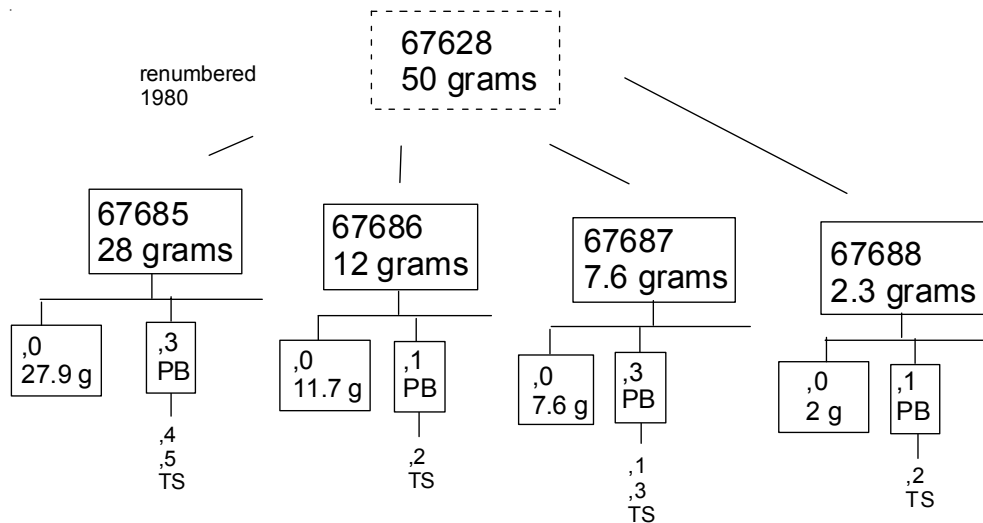


*Figure 7: Photos of
67685,6. 2 mm across*



*Figure 8: Photos
of 67687,2. 2 mm
acorsss*





References for 67628 and 67685

Borchardt R., Stoffler D., Spettel B., Palme H., Wanke H., Wacker K. and Jessberger E.K. (1986) Composition, structure and age of the Apollo 16 subregolith basement as deduced from the chemistry of post-Imbrium melt bombs. *Proc. 17th Lunar Planet. Sci. Conf.* in J. Geophys. Res. **90**, E43-E54.

Butler P. (1972a) Lunar Sample Information Catalog Apollo 16. Lunar Receiving Laboratory. MSC 03210 Curator's Catalog. pp. 370.

LSPET (1973b) The Apollo 16 lunar samples: Petrographic and chemical description. *Science* **179**, 23-34.

LSPET (1972c) Preliminary examination of lunar samples. In Apollo 16 Preliminary Science Report. NASA SP-315, 7-1—7-58.

Ryder G. and Norman M.D. (1980) Catalog of Apollo 16 rocks (3 vol.). Curator's Office pub. #52, JSC #16904

Smith J.V. and Steele I.M. (1972c) Apollo 16 rake samples 67515 to 68537: Sample classification, description and inventory. Curator Catalog, JSC

Stöffler D., Bischoff A., Borchardt R., Burghel A., Deutsch A., Jessberger E.K., Ostertag R., Palme H., Spettel B., Reimold W.U., Wacker K. and Wanke H. (1985) Composition and evolution of the lunar crust in the Descartes highlands. *Proc. 15th Lunar Planet. Sci. Conf.* in J. Geophys. Res. **90**, C449-C506.

Sutton R.L. (1981) Documentation of Apollo 16 samples. In Geology of the Apollo 16 area, central lunar highlands. (Ulrich et al.) U.S.G.S. Prof. Paper 1048.